

Dick Smith Electronics

presents

Amateur News

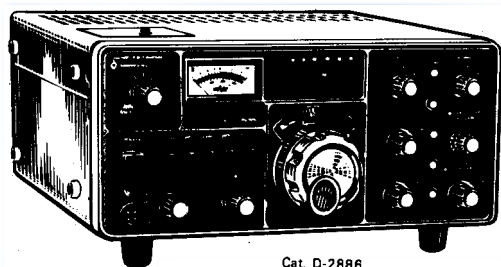
No 2



IN THIS ISSUE:

THE BRAND NEW YAESU
FT-902D

THIS MONTH'S SPECIAL



Cat. D-2886

LAST
FEW
IN
STOCK

YAESU FT-625R

If you're a 6 metre operator and want a rig that will suit today's requirements for a modern solid state unit, then we have the model for you.

The Yaesu FT-625R has the features that will enable you to work those elusive DX's. Inbuilt RF speech processor, high performance noise blanker, plus ± 1 MHz repeater split for FM buffs.

The price has been reduced and will stay at this level for the last few units in stock. The new DX season is just around the corner – get your rig NOW!

WERE SELLING FOR
\$795

NOW \$550 THAT'S A FURTHER \$145
OFF OUR NORMAL PRICE!!
Available to approved applicants on terms

SPECIAL PRICE ONLY TO
READERS OF THIS NEWSLETTER

Don't forget that Dick Smith offers finance through BFC on all items over \$111 in value – this applies to personal shoppers and is subject to approval. So, if your capital will not stretch to the 'rig' you want – apply for finance and you could be 'on air' sooner than you think!

Last chance for Hong Kong Contest entries!

DON'T SAY THAT YOU WERE'NT TOLD!!!

Whilst we have had an increase in the number of competition entries since "Amateur News" No. 1, you can hardly say that we have been **deluged**. Its crazy. In the period since the Hong Kong contest, we have sold **20 times more** Yaesu items than the number of people who have entered the competition!

IS THERE ANY REASON WHY YOU DON'T WANT TO GO TO HONG KONG?

If there isn't get your entry in **now**. Remember, it costs you nothing but the contest closes on February 27th 1981.

The details of the contest appear in the Dick Smith Amateur Radio advertisements in Electronics Australia and Electronics Today. Briefly, all that you have to do is: (1) have purchased a piece of Yaesu recently, from us or one of our resellers. (2) describe in 50 words or less the best way that Dick Smith Electronics can promote the fantastic hobby of Amateur Radio to the benefit of Australia.

That's all there is to it! Get your entry form now from any Dick Smith store or participating reseller.

Thanks are extended to Butch Chapman VK2BYS of Tumut for this letter:

The advantages of buying amateur equipment overseas: Having travelled quite extensively in the last 5 years I suppose I could say that I know a little about buying equipment in places like Singapore and Hong Kong etc. It is quite true that equipment is cheaper overseas but you have to weigh up the advantages and disadvantages before laying out your hard earned money. The advantages as I see them are being able to save up to 20%, and if you are spending \$1,000 that can be a good saving. The equipment is generally the same models as you can buy here and the more you buy the better the discount.

Now the disadvantages. As most countries have different sets of rules about who can use the amateur bands, you may not be able to try the equipment out before buying. Warranty is only available in the country of purchase. The allowance of duty free articles admitted into Australia could mean that if you have purchased other items you could end up paying 16% extra to get the equipment into this country. It is also possible that the equipment may have been originally destined for another country with different frequency allocations and as a consequence you end up being a pirate!

So at best you could be saving around \$300 or more – at the worst you could have a rig that does not work when you get home, blows up and has no warranty, has the wrong frequencies and finally you may have to fork out money to the customs man. The moral of all this is you could save by buying overseas but you could also be penny wise pound foolish!!!!

Don't forget to send your letters in – we are interested in your comments, your ideas, and anything else you may have to offer – especially when it relates to YAESU.

Amateur News

Well here it is. Dick Smith "Amateur News" No. 2.

Many people have sent us letters of praise. Many have offered suggestions some of which will help fill future editions of "Amateur News". Many also have expressed doubt that they would ever see the second edition of "Amateur News".

We can only say to such people "x!@!!!(!*)xxx".

Seriously though, its quite possible that this newsletter will not appear with the regularity of your morning paper. At least we try.

I didn't work for my "Call" so that I could sit down and write newsletters! But my enthusiasm for Amateur Radio is high and if it means writing this newsletter for you - I'll do it!

Remember though, "Amateur News" will fail without **your help**. We will give prizes for print worthy contributions so keep it up.

'73s'

JON HENNEL - VK2ZHF



YAESU ANTENNA COUPLERS

	Max Power Rating	Frequency Coverage	Built-in Power Meter	Input Impedance	Metering	Maximum Variation in Load Impedance
FC902	500W	1.8 - 30MHz PLUS 3 WARC	YES	50 - 75 Ohms	Separate Meters 1. SWR 2. Power Output	50 Ohms 10 - 250 Ohms 75 Ohms 18 - 300 Ohms
FC707	150W	1.8 - 30MHz PLUS 3 WARC	YES	50 Ohms	Single Meter	10 - 250 Ohms
FC107	250W	1.8 - 30MHz PLUS 3 WARC	YES	50 - 75 Ohms	Separate Meters 1. SWR 2. Power Output	50 Ohms 12 - 200 Ohms 75 Ohms 18 - 300 Ohms

FC902 and FC107: Provision for selecting up to 3 coax fed antennas & 1 random wire antenna.

FC707: Switch selects antenna or in-built 50 watt dummy load.

FC902
Cat. D-2855
\$255.00

FC707
Cat. D-2875
\$146.00

FC107
Cat. D-2873
\$225.00

YAESU ANTENNAS

Cat. D-4100	RSM-2 Gutter Mount with cable and plug	\$22.50
Cat. D-4102	Base for RSL3.5 to RLS28 whips	\$14.50
NOTE: the above base acts as a ¼ wave antenna for 2 metres in its own right when not used with a whip.		
Cat. D-4110	RSL3.5 Whip for use on 3.5MHz	\$24.95
Cat. D-4112	RSL7 Whip for use on 7MHz	\$24.95
Cat. D-4114	RSL14 Whip for use on 14MHz	\$24.95
Cat. D-4116	RSL21 Whip for use on 21MHz	\$24.95
Cat. D-4118	RSL28 Whip for use on 28MHz	\$24.95
Cat. D-4104	RSL145 Complete ½ wave for 2 metres or can be used as ¼ wave for 6 metres.	\$24.95

INFORMATION SNIPPETS

REF: YAESU FT-207R

When the NiCad battery pack becomes completely depleted, and it is subsequently charged, it is possible that the CPU will not initialize properly when the BU switch is on and the power switch is turned on. If your set does not turn on after charging a dead battery, switch the power and BU switches OFF, then turn them on again. Proper operation will now occur.

REF YAESU FT-480R(A)

Note the scanning steps in this model are 20kHz, to change this to 25kHz steps add diode D-4006. Page 36 in the manual says 12.5kHz, this is incorrect and should read 25kHz.

REF YAESU FRG-7 RECEIVER

This receiver is fitted with an audio reduction switch, to increase the audio level. Check that the slide switch is in the upper most position (this switch is located in the rear battery compartment on the left hand side).

FT-480R Random Frequency Display

It is possible when first powering up to cause the memory to store a random number which will then be displayed on the digital dial when the set is turned on. Switching the set off then on again will not resolve this situation. The correct switch on procedure is to make sure that the memory back-up switch is in the OFF position, and that the main ON/OFF switch is also in the OFF position, when connecting the 13.8V DC power source.

FT-107 and FT-707 MODIFICATIONS FOR NOVICE POWER

FT-107 10W MODIFICATION:

Cut jumper from VR05 to TH02 on NB unit, located beside the VR05, and adjust for 25W.

FT-707 10W MODIFICATION

Change connection at pin 30F, J2003 on IF unit to pin 2 and adjust VR05.

These modifications are direct from Yaesu.

YAESU FP-707 HINT TO REDUCE HUM IN THE SPEAKER ON TRANSMIT - From VK2BA

Mount a large steel block (obtainable from BBC Hardware), measuring 75mm high x 100mm wide x 6mm thick just behind the speaker magnet. The block of steel should be mounted on rubber feet or silastic to prevent rattling of the metal block. This will then reduce hum in the speaker on transmit.

STOCKIST OF THE MONTH

Nambour Electronics have been operating their electronics shop in Nambour for around 2 years and it has been 2 years of successful trading for them.

Over the last five months they have added Yaesu to their already large range of electronic parts, Hi Fi and car radios. If you live in the Nambour area then Nambour Electronics is the place to go.

If you are after a particular Yaesu model and Nambour Electronics do not have it in stock then it will be more than likely that we don't have it either!

Andy and Peter are always available in the store to provide fast and efficient service plus there are fully qualified technicians on the premises for after-sales service.

NAMBOUR ELECTRONICS

Located opposite

**Nambour Disposals in
ANNE STREET, NAMBOUR
QUEENSLAND - Ph. 411604**



YAESU AND DICK SMITH

SPECIAL REMINDER

It is the continuing policy of Dick Smith Electronics NOT to be under-sold on Yaesu equipment.

If you have been quoted a genuine price that is below our advertised price and the person giving the quote has the goods in stock - then Dick Smith Electronics will match or better that price.

THE ALL NEW YAESU FT-902D IS HERE!

UNIQUE RECEIVER FILTERING

The combination of rejection tuning, variable IF bandwidth, and the audio peak filter (APF) makes accessories as a CW filter unnecessary. The WIDTH control actually varies the width of the IF passband from 2.4kHz down to 300Hz! Thus, high-pitched "buckshot" on SSB, as well as unwanted CW signals, can be eliminated by narrowing the bandwidth as desired. Don't be fooled by other systems such as "IF shift", which only **move** the passband; they cannot change the **bandwidth**.

The rejection tuning will null out any interfering signal within the IF passband, and, for CW, the APF provides razor-sharp selectivity without ringing, to yield a dramatic increase in signal-to-noise ratio and QRM rejection.

FULL COVERAGE

When the new amateur bands become available, you won't miss out on the action. With the FT-902D, you get complete coverage of 160 through 10 metres, including the new 10, 18 and 24 MHz bands, all factory installed! A hallmark of the FT-902D is its all mode capability — SSB, CW, AM, FSK, and FM — on both transmit and receive.

RF SPEECH PROCESSOR

The built-in RF speech processor increases your average talk power by approximately 6dB, by filling in the "holes" in your voice. The processor accomplishes this average power increase without an accompanying increase in distortion, and gives you that extra "boost" you may need in a tough pile-up.

COMPUTER-BRED MODULAR CONSTRUCTION

The internal layout is clean and straightforward. Computer-type plug-in circuit boards make servicing a breeze, because a technician can perform voltage tests and other measurements using an "extender" board, thus saving time and money! The plug-in board concept also reduces point-to-point wiring resulting in a clean, compact transceiver with high component density.

CLEAN OUTPUT SIGNAL

Purity of emissions is important, both legally and ethically. The engineers at Yaesu have included such features as a built-in low-pass filter, toroidal output circuitry, and RF negative feedback, for a spurious-free output signal.

FT-902D SPECIFICATIONS

Frequency Coverage:

1.8-2.0MHz, 3.5-4.0MHz, 7.0-7.5MHz, 10.0-10.5MHz, 14.0-14.5MHz, 18.0-18.5MHz, 21.0-21.5MHz, 24.5-25.0MHz, 28.0-29.9MHz.

Power Requirements:

AC 100/110/117/200/220/234V, 50/60Hz; DC 13.5 V negative ground.

Power Consumption:

AC 117V: 70 watts receive (45 watts HEATER OFF), 320 watts maximum transmit; DC 13.5V: 5A receive (1.1A HEATER OFF), 21A maximum transmit.

Size:

342(W) x 154(H) x 324(D) mm

Weight:

Approximately 18kg.

TRANSMITTER

Emission:

LSB, USB, AM, CW, FM, FSK.

PA Input Power:

SSB - 180 watts PEP

CW - 180 watts DC

AM, FM, FSK - 80 watts DC

Carrier Suppression:

Better than 40dB.

Unwanted Sideband Suppression:

Better than 50dB @ 1000Hz.

Spurious Radiation:

Better than 40dB below rated output.

Transmitter Frequency Response:

300 - 2700Hz (-6dB).

3rd Order Distortion Products:

Better than 31dB below rated output.

Stability:

Less than 300Hz drift from a cold start; less than 100Hz drift over a 30 minute period after warm-up.

RF Negative Feedback:

6dB at 14MHz.

Modulation Type:

SSB - balanced modulator; AM - amplitude modulation of a low power stage; FM - variable reactance frequency modulation, maximum deviation #5kHz.

Antenna Output Impedance:

50 - 75 ohms unbalanced.

Microphone Impedance:

500 - 600 ohms (low impedance).

RECEIVER

Sensitivity:

0.25uV for S/N 10dB.

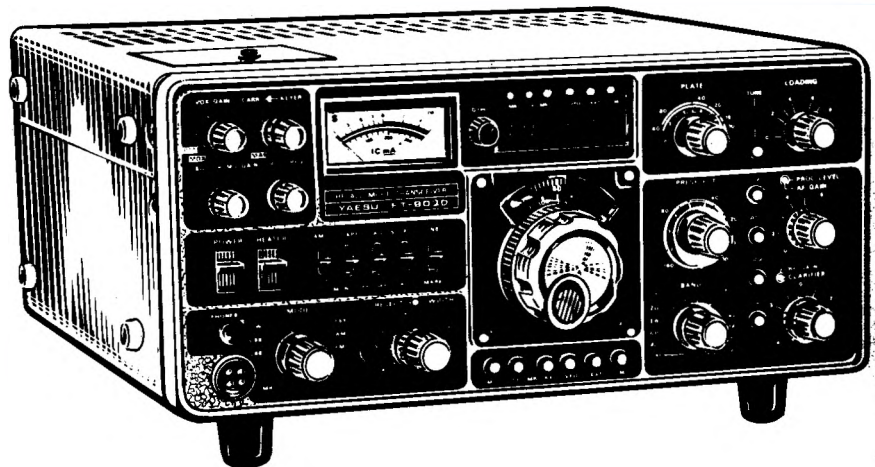


Image Rejection:

1.8 - 21MHz - better than 60dB;

28MHz - better than 50dB.

IF Rejection:

Better than 70dB.

Selectivity:

WIDTH control at "0"

SSB 2.4kHz (-6dB), 4.0kHz (-60dB); CW/FSK (with optional CW filter installed) 0.6kHz (-6dB), 1.2kHz (-60dB); AM (with optional AM filter installed) 6kHz (-6dB), 12kHz (-60dB); FM 12kHz (-6dB), 24kHz (-60dB).

Passband Tuning:

Continuous from 300Hz to 2.4kHz.

Audio Output:

Better than 3 watts @ 10% THD, audio output impedance 4-18 ohms.

Specifications subject to change without notice.

Yaesu FT-902D Cat. D-2853 \$1175.00

Yaesu FC902 Antenna Coupler Cat. D-2855 \$225.00

Yaesu Memory Cat. D-2858 \$139.50

Yaesu DC-DC Converter Cat. D-2856 \$69.00

Yaesu YE7A Hand Held Mic. Cat. C-1117 \$14.50

Yaesu YD148 Desk Mic. Cat. C-1118 \$44.50

6146B final tube (spare) Cat. D-7202 \$13.50

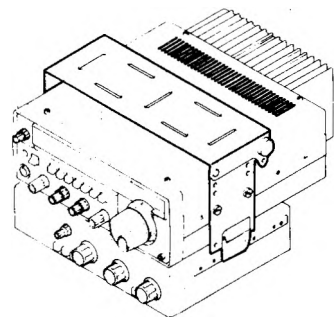
Obtainable from Mail Order Centre

FT-902 AM Filter XF 8.9GA \$33.00

FT-902 CW Filter 600Hz XF 8.9HC \$33.00

FT-902 CW Filter 350Hz XF 8.9HCN \$33.00

YAESU MMB2 BRACKET



\$35

D-2897

Yaesu items obtainable from our Mail Order Centre only.

FT-107, FT-901 AM filter XF 8.9GA \$33 (inc. tax).

FT-901, FT-107 600Hz CW filter XF 8.9HC \$33 (inc. tax).

FT-101Z, FT-901, FT-107 350Hz filter XF 8.9HCN -

\$33 (inc. tax).

LF-2A Narrow band filter for FRG-7 \$15 (inc. tax).

YM-24 Remote speaker Mic. for FT207R/FT202R -

\$28 (inc. tax).

YAESU Instruction Manuals \$5

YE-17 Mic. for FT227RA, FT227RB \$17.70 (inc. tax).

FT207R Suitable charger. Cat. M-9517 \$11.50

YAESU service manuals. P.O.A.

FT7/FT7B crystals available - different prices.

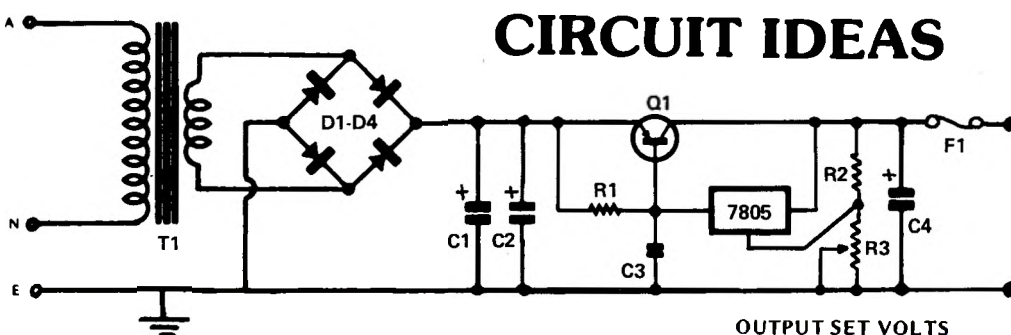
YAESU NOW WITH FULL 12 MONTHS WARRANTY - PARTS AND LABOR

Another service from Dick Smith

EFFECTIVE FROM 1/1/81

FOR YOUR FT-707 AND EITHER THE FC-707 OR THE FP-707 BUT NOT BOTH

CIRCUIT IDEAS



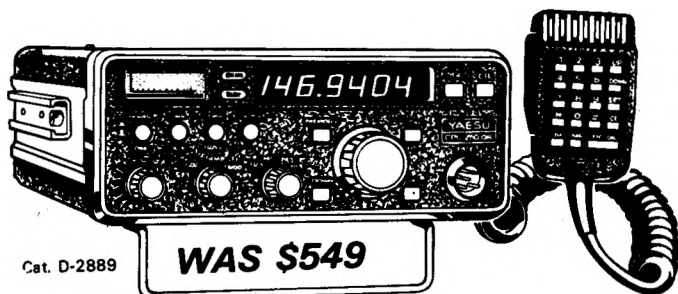
OUTPUT SET VOLTS

5-13.5 volts @ 4 amps

REGULATED SUPPLY

T1 - Cat. M-2000 Secondary 18V @ 6 amps
D1-D4 - Cat. Z-3222 1N5404 diodes
C1, C2 - Cat. R-4570 5,600uF 40VW electrolytics
C3 - Cat. R-2100 0.1uF Greencap
C4 - Cat. R-4065 10uF 63VW electrolytic
R1 - Cat. R-1414 3.3 ohm 1/4 watt resistor
R2 - Cat. R-1058 220 ohms 1/4 watt resistor
R3 - Cat. R-1803 1k linear potentiometer
Q1 - Cat. Z-2005 TIP 2955
F1 - 5 amp slow blow fuse
7805 - Cat. Z-6545

YAESU CPU-2500RK 2 METRE FM TRANSCEIVER WITH CENTRAL PROCESSING UNIT

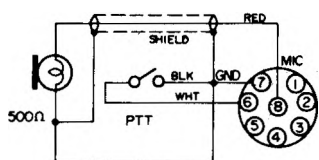


Cat. D-2889

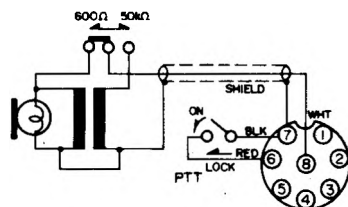
NOW REDUCED!!
NOW A ROCK BOTTOM
\$399

- The heart of the CPU-2500RK is a central processing unit (CPU), which performs complex control operations while you just flick a switch.
- 800 PLL synthesized channels are available in 5kHz steps over the entire 2 metre band. A photo-interrupter frequency selection technique is used, and full 6 digit frequency display is provided.
- The CPU scanner moves you instantly up or down the band, and will search for a busy or clear channel, as desired.
- Four memory channels are available for simplex or repeater operation, and an additional memory channel may be used for a split of up to 4MHz. The CPU will scan just the four memory channels, if you wish.
- Supplied with a keyboard microphone to allow up/down scanner control, remote selection of dial or memory frequencies, and it contains a two-tone encoder for autopatch or control purposes.
- A dual gate FET front end lets you pull in those weak signals, while the transmitter puts out a solid 25 watts.
- Convenience features include "busy channel" and "on the air" lamps, a memory backup feature, and manual or automatic tone burst selection. The unit is also protected against high VSWR and reverse power supply polarity.

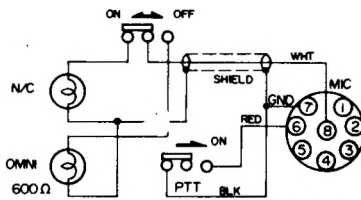
FT-707 MICROPHONE CONNECTIONS



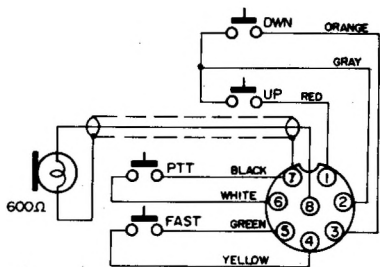
YM-37 MICROPHONE CONNECTIONS



YM-34 MICROPHONE CONNECTIONS



YM-36 MICROPHONE CONNECTIONS



YM-35 MICROPHONE CONNECTIONS

**THE YAESU FT-207R NOW
COMES WITH NiCad
CHARGER WORTH \$11.50
(Cat. M-9517)
!!!FREE!!!**

THE SUPERB FT-207R

- Microprocessor controlled hand held giving full 144-148 band!
- Digital display.

For today's active ham, this is the set to take with you. Takes up virtually no room, but really gets out! Make contacts wherever you go with the FT-207R.

**INCLUDES NiCad
CHARGER
FREE!!**



Cat D-2888

\$358

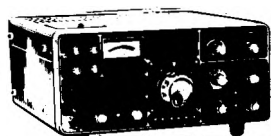
**OR FROM \$38 DEPOSIT AND
\$17.52/MONTH (24 MONTHS)**

BUDGET FT-101Z

We throw in a digital display kit worth over \$100! This turns the FT-101Z into an FT-101ZD!

More hams have 'cut their teeth' on one of the famous '101' series than any other rig! Rugged and reliable, with all the features you really need. Cat D-2862

**OR FROM \$85 DEPOSIT AND
\$23.19/MONTH (48 MONTHS)**



\$775⁰⁰

**WITH BONUS DIGITAL
DISPLAY WORTH \$139!!**

FOR THE HAM ON THE MOVE HF MOBILE FT-7B



D-2868

ONLY \$599

The FT-7B comes ready for operation on 80 through 10 metres on SSB, CW, and AM. Just hook up an antenna and a 13.5 volt DC power source, and you're on the air. The receiver front end features MOS FET and Schottky diode circuitry for maximum sensitivity and immunity from overload. For CW, an audio peak filter yields needle-sharp selectivity and a dramatic improvement in S/N ratio. The transmitter puts out a husky 50 watts on SSB and CW. Fully solid state the FT-7B draws less current on receive than your dash lights and don't forget that it makes for a very compact home base station when used with an external 13.5V DC power supply. Built-in convenience features include a 100kHz crystal calibrator, semi-break-in CW with sidetone, and receiver offset tuning - so why don't you join in the fun with the powerful and perky FT-7B.

AVAILABLE FROM OUR STORES OR BY MAIL ORDER.

**DICK
SMITH
ELECTRONICS**

NSW 145 Parramatta Rd
813 Princes Hwy
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531 Pittwater Rd
147 Hume Hwy
162 Pacific Hwy
30 Grose Street
125 York Street
263 Kiera Street

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BLAKEHURST 548 7744
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CHULLORA 642 8922
GORE HILL 439 5311
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SPRINGVALE 547 0522
PERTH 328 6944



SHOPS OPEN 9AM to 5:30PM
(Saturday 9am till 12 noon)
BRISBANE Half hour earlier
**ANY TERMS OFFERED ARE TO
APPROVED APPLICANTS ONLY**



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